

Appl. No. 10/022, 708
Amdt. Dated November 4, 2005
Reply to Office Action of July 12, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solid-state image sensing device comprising:

a plurality of groups of sensors, each of the sensors comprises a pixel line and a charge-transfer part for transferring signal charge to be read read-out from each pixel of the pixel line; and

driving means, by which ~~when in case of reading~~ read-out of the signal charge is performed at a different timing between each of said plurality of groups of sensors, wherein during a ~~reading~~ read-out period of one sensor a first group of sensors, stopping transfer driving of the signal charge of ~~the other~~ a second group of sensors is performed by said driving means.

2. (Original) A solid-state image sensing device according to Claim 1, wherein said groups of sensors are formed on the same chip.

3. (Currently Amended) A solid-state image sensing device according to Claim 1, wherein a reading period of the signal charge from said pixel line to said charge-transfer part in said plurality of groups of sensors is different for each ~~senser~~ group of sensors.

4. (Currently Amended) A solid-state image sensing device according to Claim 1,

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wherein said driving means comprises transfer driving of at least a transfer stage
~~in the vicinity of a final transfer stage~~ of the charge-transfer part in said other group(s) of
sensors ~~sensor~~ during the period when the remainder of the transfer driving of the signal
charge in said other group(s) of sensors ~~sensor~~ is stopped.

5. (Currently Amended) A solid-state image sensing device according to Claim 1,
wherein said driving means comprises restarting of transfer driving of the signal
charge in said other group(s) of sensors ~~sensor~~ in accordance with the output timing of
said ~~one sensor~~ first group of sensors.

6. (Currently Amended) A method for driving a solid-state image sensing device,
the image sensing device comprising a plurality of groups of sensors, each of the sensors
comprises a pixel line and a charge-transfer part for transferring a signal charge to be
~~reading read-out~~ from each pixel of the pixel line, the driving method comprises stopping
transfer driving of the signal charge of ~~the other sensor~~ a second group of sensors
wherein during reading read-out period of one sensor a first group of sensors when in
case of reading read out of a signal charge at a different timing between each of said
plurality of groups of sensors is performed.

7. (Original) A method for driving a solid-state image sensing device according
to Claim 6,
wherein said groups of sensors are formed on the same chip.

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8. (Currently Amended) A method for driving a solid-state image sensing device according to Claim 6,

wherein a reading period of the signal charge from said pixel line to said charge-transfer part in said plurality of groups of sensors is different for each group of sensors ~~sensor~~.

9. (Currently Amended) A method for driving a solid-state image sensing device according to Claim 6,

wherein transfer driving of ~~a transfer stage in the vicinity of at least~~ a final transfer stage of the charge-transfer part in said other group of sensors ~~sensor~~ is continued during the period when the remainder of the transfer driving of the signal charge in said other group of sensors ~~sensor~~ is stopped.

10. (Currently Amended) A method for driving a solid-state image sensing device according to Claim 6,

wherein restarting of transfer driving of the signal charge in said other group of sensors ~~sensor~~ in accordance with the output timing of said ~~one~~ first group of sensors ~~sensor~~.

11. (Currently Amended) An image scanner comprising a solid-state image sensing device for an image sensor to read a document image, the solid-state image sensing device comprising:

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a plurality of groups of sensors, each of the sensors comprises a pixel line and a charge-transfer part for transferring signal charge to be reading read-out from each pixel of the pixel line; and

driving means, by which ~~when~~ in case of reading read-out of the signal charge is performed at a different timing between each of said plurality of groups of sensors, wherein during a reading read-out period of one sensor a first group of sensors, stopping transfer driving of the signal charge of ~~the other sensor~~ a second group of sensors is performed.

Please add the following new claims:

12. (New) An image scanner comprising a solid-state image sensing device for an image sensor to read a document image, the solid-state image sensing device comprising:
at least a first group of color-sensors and a second group of monochrome-sensors formed on the same chip, each of the sensors comprising a pixel line and a charge-transfer part for transferring signal charge to be read from each pixel of the pixel line; and
driving means which stops transfer driving of the signal charges of the color-sensors during a reading period of the monochrome-sensors.